

Jaeger

🕒 2 minute read ✓ page test

After completing this task, you understand how to have your application participate in tracing with Jaeger, regardless of the language, framework, or platform you use to build your application.

This task uses the `Bookinfo` sample as the example application.

To learn how Istio handles tracing, visit this task's overview.

Before you begin

1. Follow the [Jaeger installation documentation](#) to deploy Jaeger into your cluster.
2. When you enable tracing, you can set the sampling rate that Istio uses for tracing. Use the `meshConfig.defaultConfig.tracing.sampling` option during installation to set the sampling rate. The

default sampling rate is 1%.

3. Deploy the `Bookinfo` sample application.

Accessing the dashboard

`Remotely Accessing Telemetry Addons` details how to configure access to the Istio addons through a gateway.

For testing (and temporary access), you may also use port-forwarding. Use the following, assuming you've

deployed Jaeger to the `istio-system` namespace:

```
$ istioctl dashboard jaeger
```

Generating traces using the Bookinfo sample

1. When the Bookinfo application is up and running, access `http://$GATEWAY_URL/productpage` one or more times to generate trace information.

To see trace data, you must send requests to your service. The number of requests depends on Istio's sampling rate. You set this rate when you install Istio. The default sampling rate is 1%. You need to send at least 100 requests before the first trace is visible. To send a 100 requests to the `productpage` service, use the following command:

```
$ for i in $(seq 1 100); do curl -s -o /dev/null "http://$GATEWAY_URL/productpage"; done
```

2. From the left-hand pane of the dashboard, select `productpage.default` from the **Service** drop-down list and click **Find Traces**:

Find Traces

Service (6)

productpage.default

Operation (3)

all

Tags

http.status_code=200 error=true

Lookback

Last Hour

Min Duration

e.g. 1.2s, 100ms, 500us

Max Duration

e.g. 1.2s, 100ms, 500us

Limit Results

20

Find Traces



10 Traces

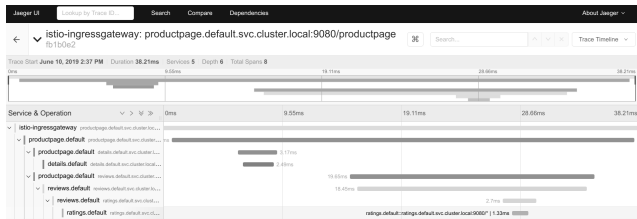
Sort: Most Recent

Compare traces by selecting result items

<input type="checkbox"/>	istio-ingressgateway: productpage.default.svc.cluster.local:9080/productpage	fbb1b0e2	36.21ms
6 Spans	<div><div>details.default (1)</div><div>istio-ingressgateway (1)</div><div>productpage.default (3)</div><div>ratings.default (1)</div><div>reviews.default (2)</div></div>		Today 2:37:33 pm a few seconds ago
<input type="checkbox"/>	istio-ingressgateway: productpage.default.svc.cluster.local:9080/productpage	fbb1b0b0	37.76ms
6 Spans	<div><div>details.default (1)</div><div>istio-ingressgateway (1)</div><div>productpage.default (3)</div><div>ratings.default (1)</div><div>reviews.default (2)</div></div>		Today 2:37:32 pm a few seconds ago
<input type="checkbox"/>	istio-ingressgateway: productpage.default.svc.cluster.local:9080/productpage	fce4fb3e	28.3ms
6 Spans	<div><div>details.default (1)</div><div>istio-ingressgateway (1)</div><div>productpage.default (3)</div><div>reviews.default (1)</div></div>		Today 2:37:32 pm a few seconds ago
<input type="checkbox"/>	istio-ingressgateway: productpage.default.svc.cluster.local:9080/productpage	88b0662	46.23ms
6 Spans	<div><div>details.default (1)</div><div>istio-ingressgateway (1)</div><div>productpage.default (3)</div><div>ratings.default (1)</div><div>reviews.default (2)</div></div>		Today 2:37:31 pm a few seconds ago

Tracing Dashboard

3. Click on the most recent trace at the top to see the details corresponding to the latest request to the `/productpage`:



Detailed Trace View

4. The trace is comprised of a set of spans, where each span corresponds to a Bookinfo service, invoked during the execution of a `/productpage` request, or internal Istio component, for example: `istio-ingressgateway`.

Cleanup

1. Remove any `istioctl` processes that may still be running using control-C or:


```
$ killall istioctl
```

2. If you are not planning to explore any follow-on tasks, refer to the [Bookinfo cleanup instructions](#) to shutdown the application.